



US010008375B2

(12) **United States Patent**
Ouyang et al.

(10) **Patent No.:** **US 10,008,375 B2**
(45) **Date of Patent:** **Jun. 26, 2018**

(54) **SYSTEMS AND METHODS FOR ANALYZING AN EXTRACTED SAMPLE**

(71) Applicant: **Purdue Research Foundation**, West Lafayette, IN (US)

(72) Inventors: **Zheng Ouyang**, West Lafayette, IN (US); **Yue Ren**, West Lafayette, IN (US); **Jiangjiang Liu**, West Lafayette, IN (US); **Linfan Li**, West Lafayette, IN (US)

(73) Assignee: **Purdue Research Foundation**, West Lafayette, IN (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/426,591**

(22) PCT Filed: **Jan. 10, 2014**

(86) PCT No.: **PCT/US2014/011000**

§ 371 (c)(1),

(2) Date: **Mar. 6, 2015**

(87) PCT Pub. No.: **WO2014/120411**

PCT Pub. Date: **Aug. 7, 2014**

(65) **Prior Publication Data**

US 2015/0325423 A1 Nov. 12, 2015

Related U.S. Application Data

(60) Provisional application No. 61/779,673, filed on Mar. 13, 2013, provisional application No. 61/759,247, filed on Jan. 31, 2013.

(51) **Int. Cl.**

H01J 49/00 (2006.01)

H01J 49/04 (2006.01)

(Continued)

(52) **U.S. Cl.**

CPC **H01J 49/0409** (2013.01); **H01J 49/0431** (2013.01); **H01J 49/167** (2013.01); **H01J 49/4205** (2013.01)

(58) **Field of Classification Search**

CPC H01J 49/00; H01J 49/020409; H01J 49/0431; H01J 49/0459; H01J 49/0463
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Primary Examiner — Jason McCormack

(74) *Attorney, Agent, or Firm* — Brown Rudnick LLP; Adam M. Schoen

(57)

ABSTRACT

The invention generally relates to systems for analyzing a sample and methods of use thereof. In certain aspects, the invention provides systems that include an ionization probe and a mass analyzer. The probe includes a hollow body that has a distal tip. The probe also includes a substrate that is at least partially disposed within the body and positioned prior to the distal tip so that sample extracted from the substrate flows into the body prior to exiting the distal tip. The probe also includes an electrode that operably interacts with sample extracted from the substrate.

16 Claims, 12 Drawing Sheets

